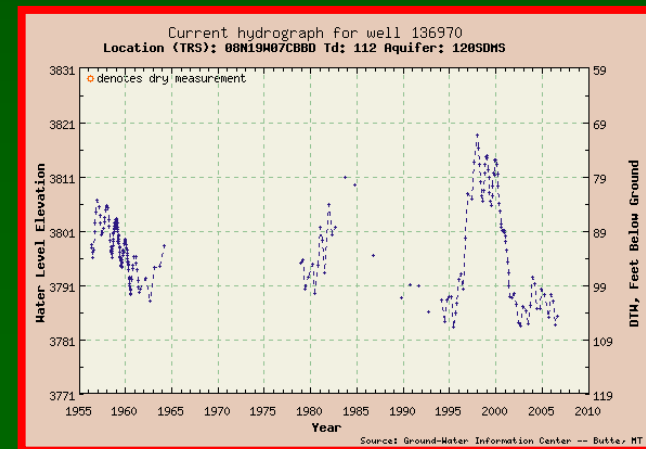
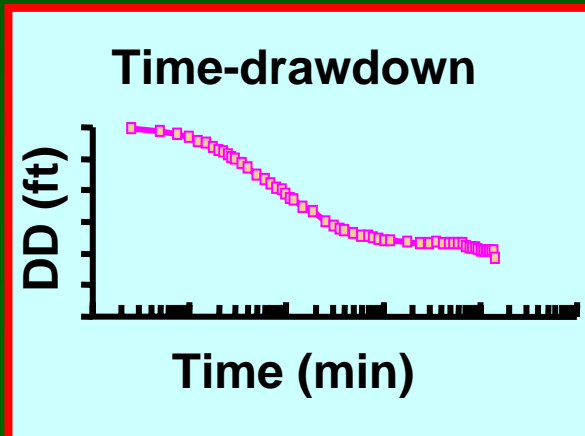
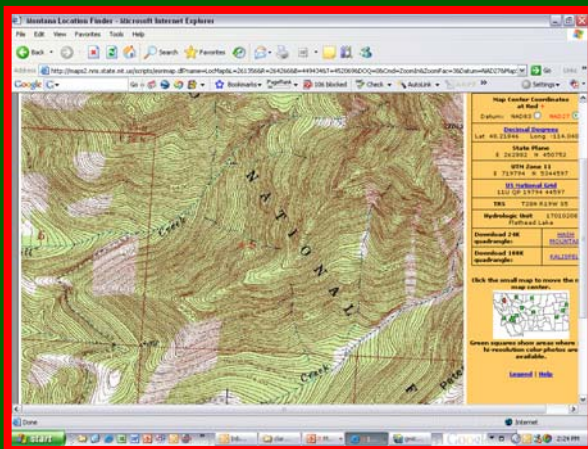
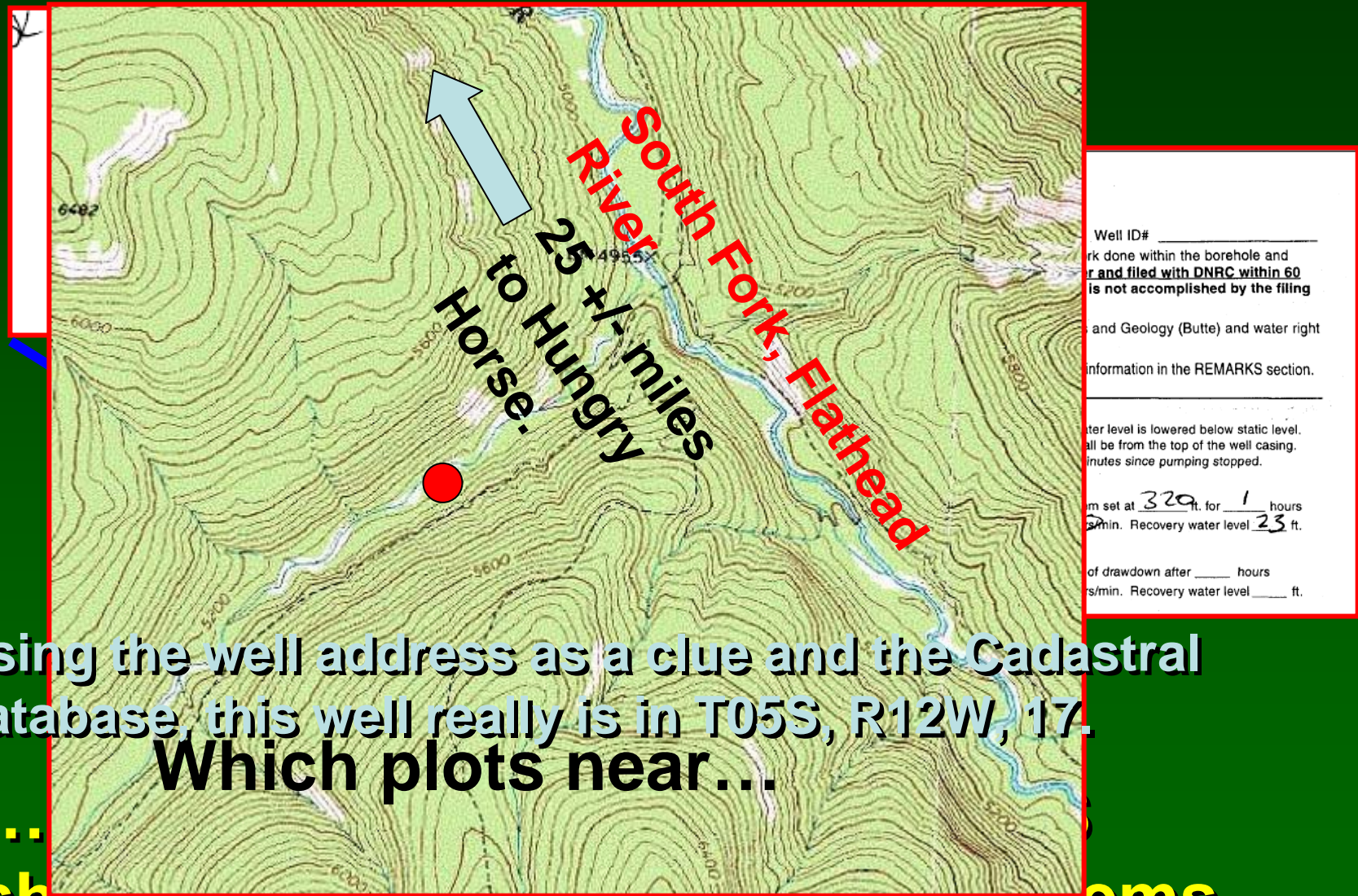


Data and Infrastructure

- Water well locations
- Aquifer tests
- Monitoring network infrastructure



Water well log locations



Using the well address as a clue and the Cadastral database, this well really is in T05S, R12W, 17. Which plots near...

... should solve some of these problems...

Water well log locations

...that's true, but there are some advantages and some disadvantages:

- Punctuation: if latitude is written 47.54438° but is really $47^{\circ} 54.438'$ or $47^{\circ} 54' 43.8''$ – the wells will be reported in widely different locations.
- The driller tends to not provide a lot-block, TRS, or other information that corroborates the well location.

Water well log locations

Montana needs to develop training and methods to improve the ability of the water-well driller to accurately report well log locations.

Aquifer tests

- Trans and s more users water

Activity, the er bound

Ground-Water Information Center
Montana Bureau of Mines and Geology
Montana Tech of The University of Montana
1300 West Park Street - Main Hall 314
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mbmggwic

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Ground Water Information Center
Aquifer Test Report

The following data were returned from the GWIC databases for the area you requested. For a more detailed description of the data view the [GWIC Data Entry](#) page. If you notice data entry errors or have questions please let us know by clicking [here](#) to leave us a message. If you wish to view a one page report click the hyperlinked **Gwic Id** for that well. Scroll to the right of your screen to view all the data.

Aq Test Id	Well No	GWIC Id	Location	Site Name	Test Date	Well Type
213	1	180982	11N03W17DBCC	KENNISON RICK/MOUNTAIN TRADES MANAGEMENT * WELL 01	11/15/2002	OBSERVATION
213	2	180981	11N03W17ADBB	KENNISON RICK/MOUNTAIN TRADES MANAGEMENT * WELL 02	11/15/2002	OBSERVATION
213	3	199989	11N03W17CADA	FIELDSTONE ESTATES * PW3	11/15/2002	PUMPING/OBSERVATION
214	1	204554	11N03W17CBDB	WIRTH PHIL * WELL 5 * IR 1	4/14/2004	PUMPING/OBSERVATION
214	2	204557	11N03W17CBDB	WIRTH PHIL * WELL 3 * PW3	4/14/2004	OBSERVATION
215	1	204557	11N03W17CBDB	WIRTH PHIL * WELL 3 * PW3	4/10/2004	PUMPING/OBSERVATION
215	2	204558	11N03W17CBDB	WIRTH PHIL * WELL 4 * PW 4	4/10/2004	OBSERVATION
215	3	199989	11N03W17CADA	FIELDSTONE ESTATES * PW3	4/10/2004	OBSERVATION
216	1	204558	11N03W17CBDB	WIRTH PHIL * WELL 4 * PW 4	7/26/2004	PUMPING/OBSERVATION

Aq Test Id	Well No	GWIC Id	Location	Site Name	Test Date	Well Type
213	1	180982	11N03W17DBCC	KENNISON RICK/MOUNTAIN TRADES MANAGEMENT * WELL 01	11/15/2002	OBSERVATION
213	2	180981	11N03W17ADBB	KENNISON RICK/MOUNTAIN TRADES MANAGEMENT * WELL 02	11/15/2002	OBSERVATION
213	3	199989	11N03W17CADA	FIELDSTONE ESTATES * PW3	11/15/2002	PUMPING/OBSERVATION
214	1	204554	11N03W17CBDB	WIRTH PHIL * WELL 5 * IR 1	4/14/2004	PUMPING/OBSERVATION
214	2	204557	11N03W17CBDB	WIRTH PHIL * WELL 3 * PW3	4/14/2004	OBSERVATION
214	3	199989	11N03W17CADA	FIELDSTONE ESTATES * PW3	4/14/2004	OBSERVATION

Produces detailed aquifer test data

Aquifer tests

Aquifer Test Well Data

Under development:

Time-drawdown plots to help users determine utility of data and results.

Test Id 214

Test Well Name

Time Since Start	Time Since Stop
------------------	-----------------

0.000

0.250

0.500

0.750

1.000

1.250

1.500

1.750

2.000

1200.000

1260.000

1320.000

1380.000

1440.000

1440.250

1440.500

1440.750

1441.000

1441.250

1441.500

1441.750

1442.000

0.250

0.500

0.750

1.000

1.250

1.500

1.750

2.000

39.960

40.090

40.200

40.300

40.380

40.450

40.520

43.820

43.820

43.820

43.820

43.830

0.350

0.480

0.590

0.690

0.770

0.840

0.910

4.210

4.210

4.210

4.210

4.220

43.730

43.500

43.350

43.240

43.130

43.050

42.970

42.890

4.120

3.890

3.740

3.630

3.520

3.440

3.360

3.280

PUMP OFF AT 1,440 MINU

INITIAL RECOVERY WATE

Aquifer Th

Trans

St

V

Pumping Le

Con
R L
TER

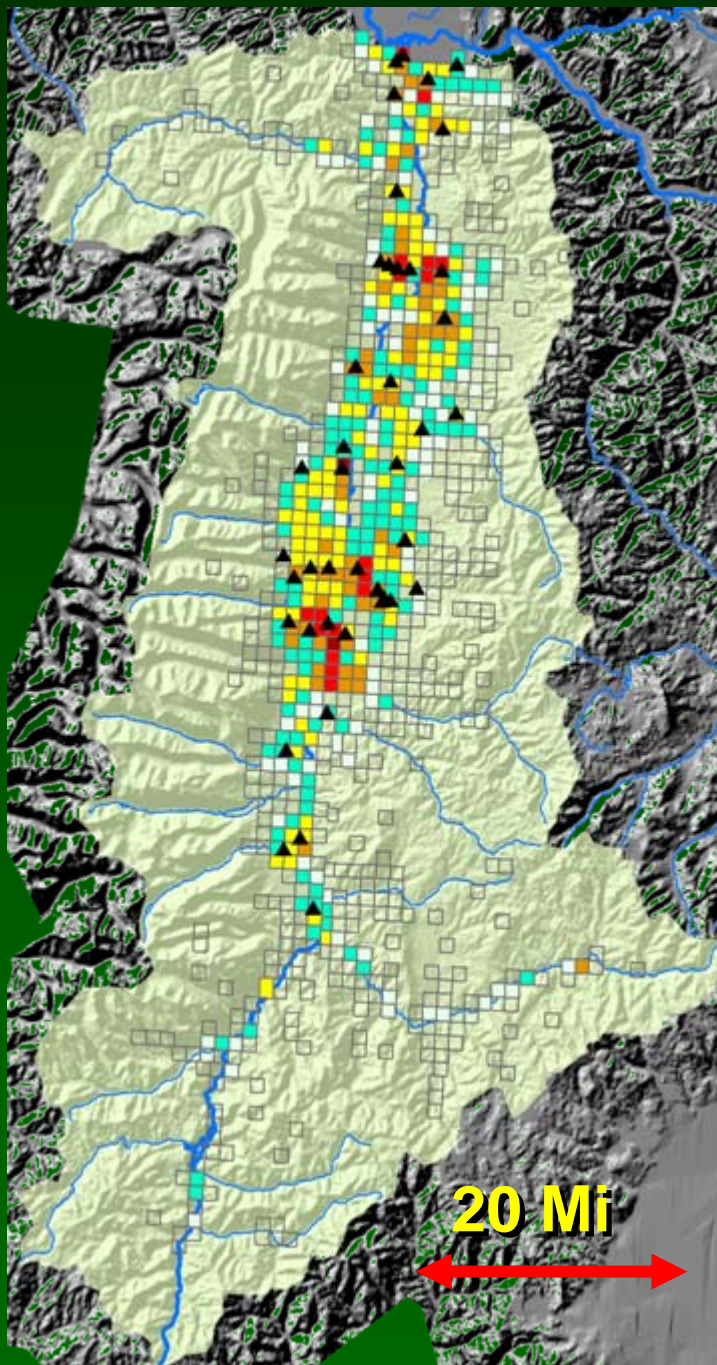
Aquifer tests

**Total number of aquifer tests
in the Clark Fork ?**

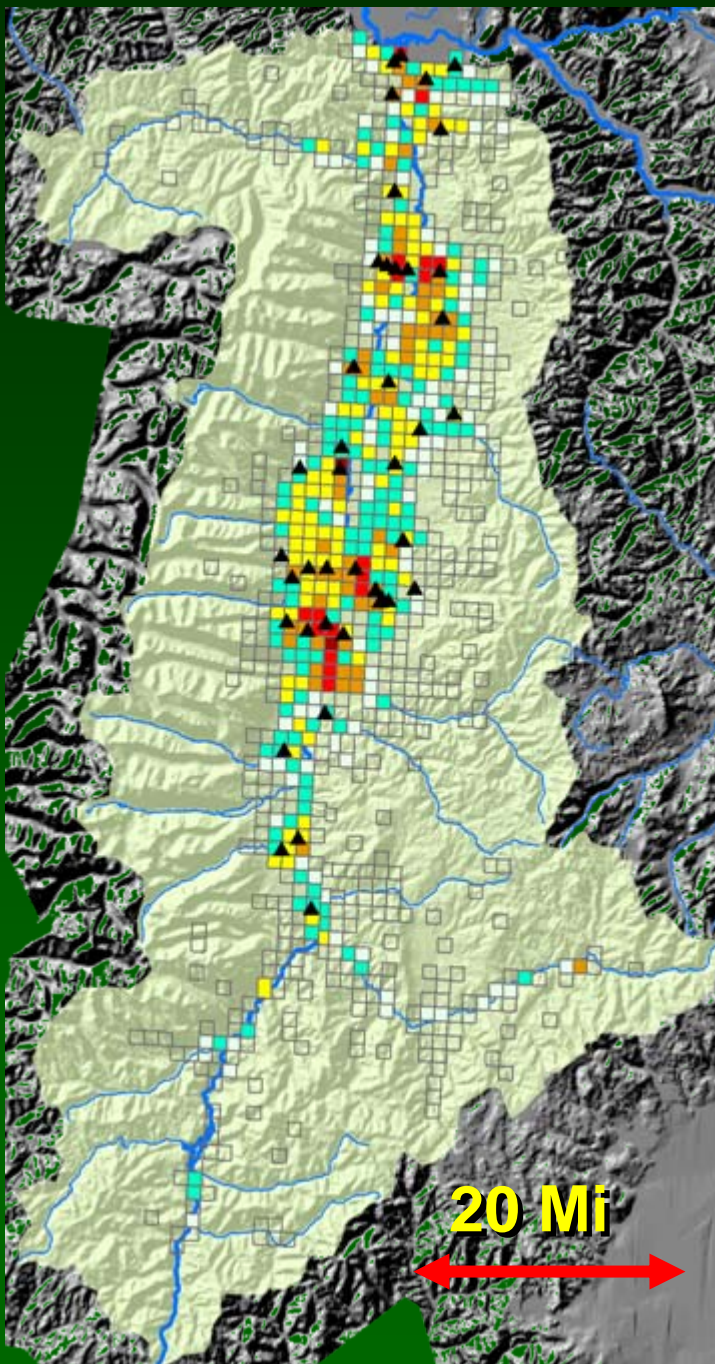
**Total number of Clark Fork
Basin aquifer tests in GWIC 22**

Montana needs to capture aquifer test data in the same manner that it acquires water-well log data. The provision to do so ideally would be made in statute.

Water-level monitoring



- Impacts from new water development projects will more and more be defined through numerical modeling.
- Model results must be calibrated to long-term water-level records.
- The statewide monitoring network in heavily populated areas must be enhanced.



Water-level monitoring

- **Dedicated monitoring wells must eventually replace “wells of opportunity” in sub-networks such as in the Bitterroot.**
- **Additional recorders should be installed to provide the amount and quality of information needed to support models.**
- **GWAA at MBMG needs a FTE to manage the network to insure that the best data possible can be obtained.**